




[PubMed](#)
[Nucleotide](#)
[Protein](#)
[Genome](#)
[Structure](#)
[PMC](#)
[Taxonomy](#)
[OMIM](#)
[Bio](#)

Search for

Limits Preview/Index History Clipboard Details

Display Show: Send to

☐ 1: T00349. Avicelase III - A...[gi:7493910]

[BLink](#), [Domains](#), [Links](#)

LOCUS T00349 856 aa linear PLN 16-JUL-1999
 DEFINITION Avicelase III - *Aspergillus aculeatus*.
 ACCESSION T00349
 VERSION T00349 GI:7493910
 DBSOURCE pir: locus T00349;

summary: #length 856 #molecular-weight 89820 #checksum 2843
 ;
 genetic: #gene aviIII
 ;
 superfamily: fungal cellulose-binding domain homology
 ;
 PIR dates: 01-Feb-1999 #sequence_revision 01-Feb-1999 #text_change 16-Jul-1999

KEYWORDS

SOURCE *Aspergillus aculeatus*ORGANISM *Aspergillus aculeatus*

Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes;
 Eurotiales; Trichocomaceae; mitosporic Trichocomaceae; *Aspergillus*.

REFERENCE 1 (residues 1 to 856)

AUTHORS Arai, M., Takada, G., Kawaguchi, T. and Sumitani, J.

TITLE Direct Submission

JOURNAL Submitted (~JUN-1998) to the EMBL Data Library

FEATURES

Location/Qualifiers
 source 1..856
 /organism="Aspergillus aculeatus"
 /db_xref="taxon:5053"
 Protein 1..856
 /product="Avicelase III"
 Region 823..854
 /region_name="domain"
 /note="fungal cellulose-binding domain homology #label FCB"

ORIGIN

```

1 marsslallc aallgklada aasqaytwkn vvtgggggft pgivfnpsak gvayartdig
61 gayrlnsddt wtplmdwvgn dtwhdwgida latdpvdtdr vyvavgmytn ewdpnvgsil
121 rstddqgtwt etklpfkvvg nmpgrgmger lavdpnknsi lyfgarsghg lwkstdygat
181 wsnvtsftwt gtyfqdssst ytsdpvgiaw vtfdstsgss gsatprifvg vadagksvfk
241 sedagatwaw vsgepqygfl phkgvlspee ktlyisyang agpydgtngt vkhynitsgv
301 wtdisptsla styygyggls vdlqvpgtlm vaalncwwpd elifrstdsg atwspiwewn
361 gypsinyyys ydisnapwiq dttstdqfpv rvgwmveala idpfdsnhwl ygtgltvygg
421 hdltnwdskh nvtvkslavg ieemavlgli tppggpalls avgddggfyh sdldaapnqa
481 yhtptygttn gidyagnkps nivrgasdd yptlalssnf gstwyadyaa ststgtgava
541 lsadgdtvll msstsgalvs ksqgtltavs slpsgavias dksdntvfyg gsagaiyvsk
601 ntatsftktv slgssttvna irahpsiagd vwastdkglw hstdygstft qigsgvtagw
661 sfgfgkasst gsyvviygff tidgaaglfk sedagtnwqv isdashgfgs gsanvvngdl
721 qtygrvfrgh erpghllrqs qrepagrhdg gdgdttskt sttvsttlkt ttssasttss
  
```

781 sttvktttss ssttskasst tttkttttst ttssgttata sayaqcggng wtgatvcftg
841 ytctysnafy sqcvps

//

Revised: August 5, 2002.

[Disclaimer](#) | [Write to the Help Desk](#)
[NCBI](#) | [NLM](#) | [NIH](#)

Feb 19 2003 14:49:48

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal653sxs

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Apr 08	"Ask CAS" for self-help around the clock
NEWS	3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS	4	Apr 09	ZDB will be removed from STN
NEWS	5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS	6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	9	Jun 03	New e-mail delivery for search results now available
NEWS	10	Jun 10	MEDLINE Reload
NEWS	11	Jun 10	PCTFULL has been reloaded
NEWS	12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS	13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS	14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS	15	Jul 30	NETFIRST to be removed from STN
NEWS	16	Aug 08	CANCERLIT reload
NEWS	17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	18	Aug 08	NTIS has been reloaded and enhanced
NEWS	19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS	21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03	JAPIO has been reloaded and enhanced
NEWS	24	Sep 16	Experimental properties added to the REGISTRY file
NEWS	25	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	26	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	27	Oct 21	EVENTLINE has been reloaded
NEWS	28	Oct 24	BEILSTEIN adds new search fields
NEWS	29	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	30	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS	31	Nov 18	DKILIT has been renamed APOLLIT
NEWS	32	Nov 25	More calculated properties added to REGISTRY
NEWS	33	Dec 02	TIBKAT will be removed from STN
NEWS	34	Dec 04	CSA files on STN
NEWS	35	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	36	Dec 17	TOXCENTER enhanced with additional content
NEWS	37	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	38	Dec 30	ISMEC no longer available
NEWS	39	Jan 13	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS	40	Jan 21	NUTRACEUT offering one free connect hour in February 2003
NEWS	41	Jan 21	PHARMAML offering one free connect hour in February 2003
NEWS	42	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	43	Feb 13	CANCERLIT is no longer being updated
NEWS	44	Feb 24	METADEX enhancements
NEWS	45	Feb 24	PCTGEN now available on STN

NEWS 46 Feb 24 TEMA now available on STN
NEWS 47 Feb 26 NTIS now allows simultaneous left and right truncation
NEWS 48 Feb 26 PCTFULL now contains images

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 21:42:30 ON 27 FEB 2003

=> File agriculture chemeng chemistry food matdata materials reaction
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.21 0.21

FILE 'AGRICOLA' ENTERED AT 21:42:39 ON 27 FEB 2003

FILE 'BIOBUSINESS' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Biological Abstracts, Inc. (BIOSIS)

FILE 'BIOCOMMERCE' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 BioCommerce Data Ltd. Richmond Surrey, United Kingdom. All rights reserved

FILE 'BIOSIS' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'BIOTECHNO' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Elsevier Science B.V., Amsterdam. All rights reserved.

FILE 'CABA' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 CAB INTERNATIONAL (CABI)

FILE 'CAPLUS' ENTERED AT 21:42:39 ON 27 FEB 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CBNB' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (c) 2003 ELSEVIER ENGINEERING INFORMATION, INC.

FILE 'CIN' ENTERED AT 21:42:39 ON 27 FEB 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 American Chemical Society (ACS)

FILE 'CONFSCI' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'CROPB' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 THOMSON DERWENT

FILE 'CROPU' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 THOMSON DERWENT

FILE 'ESBIOBASE' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Elsevier Science B.V., Amsterdam. All rights reserved.

FILE 'FEDRIP' ENTERED AT 21:42:39 ON 27 FEB 2003

FILE 'FOMAD' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Leatherhead Food Research Association

FILE 'FOREGE' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Leatherhead Food Research Association

FILE 'FROSTI' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Leatherhead Food Research Association

FILE 'FSTA' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 International Food Information Service

FILE 'GENBANK' ENTERED AT 21:42:39 ON 27 FEB 2003

FILE 'IFIPAT' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 IFI CLAIMS(R) Patent Services (IFI)

FILE 'INVESTEXT' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Thomson Financial Services, Inc. (TFS)

FILE 'LIFESCI' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'NAPRALERT' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Board of Trustees of the University of Illinois,
University of Illinois at Chicago.

FILE 'NTIS' ENTERED AT 21:42:39 ON 27 FEB 2003
Compiled and distributed by the NTIS, U.S. Department of Commerce.
It contains copyrighted material.
All rights reserved. (2003)

FILE 'PASCAL' ENTERED AT 21:42:39 ON 27 FEB 2003
Any reproduction or dissemination in part or in full,
by means of any process and on any support whatsoever
is prohibited without the prior written agreement of INIST-CNRS.
COPYRIGHT (C) 2003 INIST-CNRS. All rights reserved.

FILE 'PHIC' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 PJB Publications Ltd. (PJB)

FILE 'PHIN' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 PJB Publications Ltd. (PJB)

FILE 'PROMT' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Gale Group. All rights reserved.

FILE 'SCISEARCH' ENTERED AT 21:42:39 ON 27 FEB 2003

COPYRIGHT (C) 2003 Institute for Scientific Information (ISI) (R)

FILE 'USPATFULL' ENTERED AT 21:42:39 ON 27 FEB 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 21:42:39 ON 27 FEB 2003
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'APOLLIT' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (c) 2003 FIZ Karlsruhe

FILE 'BIOTECHABS' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 THOMSON DERWENT AND INSTITUTE FOR SCIENTIFIC INFORMATION

FILE 'BIOTECHDS' ACCESS NOT AUTHORIZED

FILE 'CEABA-VTB' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (c) 2003 DECHEMA eV

FILE 'CEN' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 American Chemical Society (ACS)

FILE 'COMPENDEX' ENTERED AT 21:42:39 ON 27 FEB 2003
Compendex Compilation and Indexing (C) 2003
Elsevier Engineering Information Inc (EEI). All rights reserved.
Compendex (R) is a registered Trademark of Elsevier Engineering Information Inc.

FILE 'INSPEC' ENTERED AT 21:42:39 ON 27 FEB 2003
Compiled and produced by the IEE in association with FIZ KARLSRUHE
COPYRIGHT 2003 (c) INSTITUTION OF ELECTRICAL ENGINEERS (IEE)

FILE 'INSPHYS' ENTERED AT 21:42:39 ON 27 FEB 2003
Compiled and produced by the IEE in association with FIZ KARLSRUHE
COPYRIGHT 2003 (c) INSTITUTION OF ELECTRICAL ENGINEERS (IEE)

FILE 'KOSMET' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 International Federation of the Societies of Cosmetics Chemists

FILE 'PAPERCHEM2' ENTERED AT 21:42:39 ON 27 FEB 2003
Paperchem2 compilation and indexing (C) 2003
Elsevier Engineering Information Inc. All rights reserved.

FILE 'RAPRA' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 RAPRA Technology Ltd.

FILE 'RUSSCI' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Andrigal Ltd.

FILE 'WSCA' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 PAINT RESEARCH

FILE 'ALUMINIUM' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'ANABSTR' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (c) 2003 THE ROYAL SOCIETY OF CHEMISTRY (RSC)

FILE 'AQUIRE' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 US Environmental Protection Agency (EPA)

FILE 'BABS' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (c) 2003 Beilstein-Institut zur Foerderung der Chemischen Wissenschaften
licensed to Beilstein Chemiedaten & Software GmbH and MDL Information Systems GmbH

FILE 'CAOLD' ENTERED AT 21:42:39 ON 27 FEB 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CERAB' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'COPPERLIT' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Copper Development Association Inc. (CDA)

FILE 'CORROSION' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'ENCOMPLIT' ENTERED AT 21:42:39 ON 27 FEB 2003
EnComplit compilation and indexing (C) 2003
Elsevier Engineering Information Inc. All rights reserved.

FILE 'ENCOMPLIT2' ENTERED AT 21:42:39 ON 27 FEB 2003
EnComplit2 compilation and indexing (C) 2003
Elsevier Engineering Information Inc. All rights reserved.

FILE 'IPA' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 American Society of Hospital Pharmacists (ASHP)

FILE 'JICST-EPLUS' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Japan Science and Technology Corporation (JST)

FILE 'METADEX' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (c) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'NIOSHTIC' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 U.S. Secretary of Commerce on Behalf of the U.S. Government

FILE 'STANDARDS' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 GERMAN INFORMATION CENTRE FOR TECHNICAL RULES (DITR) IN DIN

FILE 'TULSA' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 The University of Tulsa (UTULSA)

FILE 'TULSA2' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 The University of Tulsa (UTULSA)

FILE 'USAN' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 U.S. Pharmacopeial Convention, Inc. (USPC)

FILE 'WELDASEARCH' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (c) 2003 The Welding Institute (TWI)

FILE 'MEDICONF' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (c) 2003 FAIRBASE Datenbank GmbH, Hannover, Germany

FILE 'NUTRACEUT' ENTERED AT 21:42:39 ON 27 FEB 2003
Copyright 2003 (c) MARKETLETTER Publications Ltd. All rights reserved.

FILE 'TOXCENTER' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 ACS

FILE 'ALFRAC' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 U.S. Department of Commerce (DOC)

FILE 'ASMDATA' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 by ASM International

FILE 'COPPERDATA' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Copper Development Association Inc. (CDA)

FILE 'GMELIN' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 MDL Information Systems GmbH

FILE 'MDF' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 The Institute of Metals and ASM International (IoM/ASM)

FILE 'PDLCOM' ENTERED AT 21:42:39 ON 27 FEB 2003
Copyright Notice: Copyright (C) 2003 William Andrew, Inc. (WAI)

FILE 'PLASPEC' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 BILL COMMUNICATIONS, INC.

FILE '1MOBILITY' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Society of Automotive Engineers, Inc.

FILE '2MOBILITY' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Society of Automotive Engineers, Inc.

FILE 'DKF' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Dokumentation Kraftfahrwesen e.V., Germany

FILE 'EMA' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'ENERGY' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (c) 2003 USDOE for the IEA-Energy Technology Data Exchange (ETDE)

FILE 'HEALSAFE' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'INIS' ACCESS NOT AUTHORIZED

FILE 'MATBUS' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (c) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'MSDS-CCOHS' ENTERED AT 21:42:39 ON 27 FEB 2003
Copyright Notice: Permission to copy is not required for this file

FILE 'MSDS-OHS' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 MDL INFORMATION SYSTEMS (MDL)

FILE 'PIRA' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Pira International

FILE 'PLASNEWS' ENTERED AT 21:42:39 ON 27 FEB 2003
Copyright (C) 2003 Bill Communications, Inc. (BCI)

FILE 'SIGLE' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT 2003 (C) EUROPEAN ASSOCIATION FOR GREY LITERATURE (EAGLE)

FILE 'SOLIDSTATE' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Cambridge Scientific Abstracts (CSA)

FILE 'TEXTILETECH' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Inst. of Textile Technology

FILE 'TRIBO' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT 2003 (c) BAM BERLIN

FILE 'WTEXTILES' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 Elsevier Science B.V., Amsterdam. All rights reserved.

FILE 'CASREACT' ENTERED AT 21:42:39 ON 27 FEB 2003
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CHEMINFORMRX' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) FIZ-CHEMIE BERLIN

FILE 'CHEMREACT' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) Springer-Verlag/InfoChem GmbH (IC)

FILE 'DJSMONLINE' ENTERED AT 21:42:39 ON 27 FEB 2003
COPYRIGHT (C) 2003 THOMSON DERWENT

=> s exoglucanase (4a) (cellulolyticus or acidothermus)

41 FILES SEARCHED...

85 FILES SEARCHED...

L1 14 EXOGLUCANASE (4A) (CELLULOLYTICUS OR ACIDOTHERMUS)

=> s exoglucanase (4a) (purify or purification or purified or isolate or isolated or isolation)

17 FILES SEARCHED...

33 FILES SEARCHED...

59 FILES SEARCHED...

90 FILES SEARCHED...

L2 201 EXOGLUCANASE (4A) (PURIFY OR PURIFICATION OR PURIFIED OR ISOLATE OR ISOLATED OR ISOLATION)

=> s l1 and l2

47 FILES SEARCHED...

L3 0 L1 AND L2

=> duplicate

ENTER REMOVE, IDENTIFY, ONLY, OR (?):remove

ENTER L# LIST OR (END):l2

DUPLICATE IS NOT AVAILABLE IN 'BIOCOMMERCE, FEDRIP, FOREGE, GENBANK, INVESTEXT, KOSMET, AQUIRE, CAOLD, STANDARDS, USAN, MEDICONF, NUTRACEUT, ALFRAC, ASMDATA, COPPERDATA, GMELIN, MDF, PDLCOM, PLASPEC, MSDS-CCOHS, MSDS-OHS, PLASNEWS, CHEMINFORMRX, CHEMREACT, DJSMONLINE'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE

DUPLICATE PREFERENCE IS 'AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CABA, CAPLUS, CONFSCI, ESBIOBASE, FSTA, LIFESCI, PASCAL, SCISEARCH, USPATFULL, BIOTECHABS, CEABA-VTB, COMPENDEX, PAPERCHEM2, BABS, JICST-EPLUS, TOXCENTER, ENE'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L2

L4 74 DUPLICATE REMOVE L2 (127 DUPLICATES REMOVED)

=> s (avicel or cellulose) (2a) column

32 FILES SEARCHED...

64 FILES SEARCHED...

L5 23379 (AVICEL OR CELLULOSE) (2A) COLUMN

=> s l4 and (argine or dipolar or l5)

24 FILES SEARCHED...

47 FILES SEARCHED...

78 FILES SEARCHED...

L6 2 L4 AND (ARGININE OR DIPOLAR OR L5)

=> d l6 1-2 bib ab

L6 ANSWER 1 OF 2 BIOBUSINESS COPYRIGHT 2003 BIOSIS
AN 86:34027 BIOBUSINESS

DN 0084315
 TI **COLUMN CELLULOSE HYDROLYSIS REACTOR: CELLULASE**
 ADSORPTION PROFILE.
 AU TAN L U L; YU E K C; MAYERS P; SADDLER J N
 CS BIOTECHNOL. CHEM. DEP., FORINTEK CANADA CORP., 800 MONTREAL ROAD, OTTAWA,
 CANADA K1G 3Z5.
 SO APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, (1986) VOL.25, NO.3, P.256-261.
 FS NONUNIQUE
 LA ENGLISH
 AB A **column cellulose** hydrolysis reactor was set up using
 a single passage of cellulase enzyme which was followed with a continuous
 percolation of buffer. Hydrolysis rates were found to decline
 precipitously upon the removal of the non-adsorbed cellulase components.
 By comparing specific activities of the cellulase before and after
 adsorption on the **cellulose column**, it was concluded
 that the adsorption efficiencies for the cellulase components decreased
 from exoglucanase (1,4-.beta.-D-glucan cellobiohydrolase EC 3.2.1.91) to
 endoglucanase (1,4-(1,3:1,4)-.beta.-D-glucan 4-glucanohydrolase, EC
 3.2.1.4) to .beta.-glucosidase (.beta.-D-glucoside glucohydrolase, EC
 3.2.1.21). Of the adsorbed cellulase components, the rate of endoglucanase
 leaching from the cellulose column was 20 times, that for the
 exoglucanase despite the greater adsorption efficiency of the latter. By
 analysing the cellulase components which were found and not bound by the
cellulose column and comparing them with a
purified exoglucanase enzyme on sodium dodecyl sulfate
 polyacrylamide gels, it was confirmed that the major cellulase component
 adsorbed to the **cellulose column** was an exoglucanase
 component. The resultant loss of other cellulase components from the
 reactor was probably the cause for the much reduced rate of cellulose
 hydrolysis when these components were flushed out of the column.

L6 ANSWER 2 OF 2 BIOTECHABS COPYRIGHT 2003 THOMSON DERWENT AND ISI
 AN 1984-02292 BIOTECHABS
 TI Characterization of exoglucanase and synergistic hydrolysis of cellulose
 in Clostridium stercorarium;
 enzyme isolation and purification
 AU Creuzet N; Berenger J F; Frixon C
 LO Laboratoire de Chimie Bacterienne, C.N.R.S. B.P. 71, 31 Chemin Joseph
 Aiguier, 13277 Marseille Cedex 9, France.
 SO FEMS Microbiol.Lett.; (1983) 20, 3, 347-50
 CODEN: FMLED7
 DT Journal
 LA English
 AB A cellobiohydrolase component was isolated from the anaerobic
 thermophilic cellulolytic bacterium Clostridium stercorarium. The
 microorganism was grown at 60 deg in a medium containing Walseth
 cellulose obtained from MN300 cellulose. After 40 hr the culture was
 centrifuged and the supernatant was filtered through glass fiber disks
 before precipitation with ammonium sulfate. The enzyme, assumed to be
exoglucanase, was **purified** by DEAE-Trisacryl
column chromatography. Walseth **cellulose** was partially
 hydrolyzed by the enzyme and the soluble products found after 72 hr of
 incubation with this substrate were identified by HPLC analysis. The
 major product of hydrolysis was cellobiose. When combined with
 endoglucanase the enzyme allowed an extensive hydrolysis demonstrating a
 marked synergism in the action of those 2 components. The addition of
 beta-glucosidase (EC-3.2.1.21) gave a further increase in activity. (18
 ref)

=>

<-----User Break----->